

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits  | Search Query   | DBs                       | Default Operator | Plurals | Time Stamp          |
|-------|-------|--|---------------------------|------------------|---------|---------------------|
| L1    | 1     | "10/575,080"   | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:18 |
| L2    | 31    | SCHWENK-GERHARD.<br>in.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:18 |
| L3    | 36    | GIERING-THOMAS.in.   | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:18 |
| L4    | 5844  | 428/195.1.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L5    | 1360  | 428/211.1.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L6    | 4937  | 428/690.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L7    | 660   | 428/916.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L8    | 900   | 283/72.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L9    | 654   | 283/74.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L10   | 441   | 283/75.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L11   | 277   | 283/86.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L12   | 559   | 283/94.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L13   | 626   | 283/901.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L14   | 517   | 283/904.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:21 |
| L15   | 15265 | L4 L5 L6 L7 L8 L9 L10<br>L11 L12 L13 L14                         | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:22 |
| L16   | 1262  | ((value security) same<br>document) and<br>(spectral with range) | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:23 |
| L17   | 96    | L15 and L16  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:23 |
| L18   | 112   | L16 and "283"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:25 |
| L19   | 42    | L18 not L17  | US-PGPUB;<br>USPAT; USOCR | OR               | ON      | 2010/12/01<br>14:26 |

|     |      |   |                        |    |    |                  |
|-----|------|---|------------------------|----|----|------------------|
| L20 | 131  | ((value security) same document) and (spectral with range) and (volume with (document substrate web))   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:26 |
| L21 | 23   | L20 and L15   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:26 |
| L22 | 89   | ((value security) same document) and (spectral with range) and (volume with (document substrate web)) and absorb\$4   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:31 |
| L23 | 21   | L22 and L15   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:31 |
| L24 | 55   | ((value security) same document) and (spectral with range) and (volume with (document substrate web)) and absorb\$4 and ((feature device) with (second additional)) | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:32 |
| L25 | 12   | L24 and L15   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:32 |
| L26 | 4    | ("6530527" "6155605" "20020188845" "6786954").pn.   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:32 |
| L27 | 1343 | ((value bank security) near3 (document note)) and "283"/\$. ccls.   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:33 |
| L28 | 2209 | ((value bank security) near3 (document note)) and "235"/\$. ccls.   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:33 |
| L29 | 2610 | ((value bank security) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:33 |
| L30 | 293  | L29 and L15   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:33 |
| L31 | 349  | L29 and "283"/\$.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:33 |

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|-----|------|---|------------------------|----|----|------------------|
| L32 | 3608 | ((secur\$5 value) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:34 |
| L33 | 278  | L32 and L15   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:34 |
| L34 | 4040 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:34 |
| L35 | 2267 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR") and ((feature device) with (second additional))           | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:34 |
| L36 | 161  | L35 and L15   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:34 |
| L37 | 2394 | ((secur\$5 value bank) near3 (document note)) banknote) same print\$4 and (spectr\$5 infrared "IR") and ((feature device) with (second additional)) | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:35 |
| L38 | 165  | L37 and L15   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:35 |
| L39 | 9    | L35 and Ahlers.in.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:35 |
| L40 | 9    | L37 and Ahlers.in.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:35 |
| L41 | 4    | ("4455093" "4455039" "6491324" "5259907"). pn.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:35 |
| L42 | 33   | ((value security) same document) and (spectral with range)  | EPO; JPO; DERWENT      | OR | ON | 2010/12/01 14:36 |
| L43 | 553  | ((value bank security) near3 (document note)) and (spectr\$5 infrared "IR")   | EPO; JPO; DERWENT      | OR | ON | 2010/12/01 14:37 |
| L44 | 146  | ((value bank security) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")   | EPO; JPO; DERWENT      | OR | ON | 2010/12/01 14:37 |

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|-----|-----|--|------------------------|----|----|------------------|
| L45 | 149 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")  | EPO; JPO; DERWENT      | OR | ON | 2010/12/01 14:38 |
| L46 | 7   | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR") and ((feature device) with (second additional))  | EPO; JPO; DERWENT      | OR | ON | 2010/12/01 14:38 |
| L47 | 150 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR") and (volume with (document note substrate)) and absorb \$4   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:50 |
| L48 | 23  | L47 and L15  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:51 |
| L49 | 109 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR") and (volume with (document note substrate)) and absorb \$4 and ((feature device) same (second additional)) | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:52 |
| L50 | 15  | L49 and L15  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:53 |
| L51 | 23  | L47 and "283"/\$.ccls.   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:54 |
| L52 | 15  | L49 and "283"/\$.ccls.   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:54 |
| L53 | 30  | L47 and "235"/\$.ccls.   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:54 |
| L54 | 23  | L49 and "235"/\$.ccls.   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 14:54 |
| L55 | 3   | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR") and (volume with (document note substrate)) and absorb \$4   | EPO; JPO; DERWENT      | OR | ON | 2010/12/01 14:57 |

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|-----|-------|---|---------------------------|----|----|---------------------|
| L56 | 0     | ((secur\$5 value bank<br>near3 (document<br>note)) same print\$4)<br>and (spectr\$5 infrared<br>"IR") and (volume with<br>(document note<br>substrate)) and absorb<br>\$4 and ((feature<br>device) same (second<br>additional)) | EPO; JPO;<br>DERWENT      | OR | ON | 2010/12/01<br>14:58 |
| S1  | 1     | "10/575,080"  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>10:31 |
| S2  | 28    | SCHWENK-GERHARD.<br>in.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>11:00 |
| S3  | 32    | GLIERING-THOMAS.in.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>11:00 |
| S4  | 4     | ("20050052519"  <br>"6155605"   "6165592"<br>  "6383618").PN.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>11:01 |
| S5  | 6     | ("20020166647"<br>"7175739"<br>"20050230071"<br>"6936138" "4452843"<br>"4451530").pn.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>11:27 |
| S6  | 5599  | 428/195.1.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:34 |
| S7  | 1341  | 428/211.1.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:35 |
| S8  | 653   | 428/916.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:35 |
| S9  | 863   | 283/72.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:36 |
| S10 | 637   | 283/74.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:36 |
| S11 | 422   | 283/75.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:36 |
| S12 | 271   | 283/86.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:38 |
| S13 | 540   | 283/94.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:38 |
| S14 | 614   | 283/901.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:39 |
| S15 | 516   | 283/904.ccls.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:39 |
| S16 | 10114 | S6 S7 S8 S9 S10 S11<br>S12 S13 S14 S15  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/06/03<br>14:43 |

|     |      |   |                        |    |    |                  |
|-----|------|---|------------------------|----|----|------------------|
| S17 | 1169 | ((value security) same document) and (spectral with range)  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:45 |
| S18 | 82   | S16 and S17   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:45 |
| S19 | 107  | S17 and "283"/\$.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:45 |
| S20 | 41   | S19 not S18   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:52 |
| S21 | 111  | ((value security) same document) and (spectral with range) and (volume with (document substrate web))   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:55 |
| S22 | 19   | S21 and S16   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:55 |
| S23 | 74   | ((value security) same document) and (spectral with range) and (volume with (document substrate web)) and absorb\$4   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:56 |
| S24 | 17   | S23 and S16   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:57 |
| S25 | 49   | ((value security) same document) and (spectral with range) and (volume with (document substrate web)) and absorb\$4 and ((feature device) with (second additional)) | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:58 |
| S26 | 9    | S25 and S16   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 14:59 |
| S27 | 4    | ("6530527" "6155605" "20020188845" "6786954").pn.   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:04 |
| S28 | 1277 | ((value bank security) near3 (document note)) and "283"/\$.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:06 |
| S29 | 2082 | ((value bank security) near3 (document note)) and "235"/\$.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:06 |

|     |      |   |                        |    |    |                  |
|-----|------|---|------------------------|----|----|------------------|
| S30 | 2449 | ((value bank security) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:07 |
| S31 | 264  | S30 and S16   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:07 |
| S32 | 322  | S30 and "283"/\$.ccls.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:08 |
| S33 | 3362 | ((secur\$5 value) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:09 |
| S34 | 249  | S33 and S16   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:09 |
| S35 | 3782 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:12 |
| S36 | 2107 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR") and ((feature device) with (second additional))           | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:14 |
| S37 | 142  | S36 and S16   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:14 |
| S38 | 9    | S36 and Ahlers.in.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:16 |
| S39 | 2226 | ((secur\$5 value bank) near3 (document note)) banknote) same print\$4 and (spectr\$5 infrared "IR") and ((feature device) with (second additional)) | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:18 |
| S40 | 146  | S39 and S16   | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:18 |
| S41 | 9    | S39 and Ahlers.in.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:18 |
| S42 | 4    | ("4455093" "4455039" "6491324" "5259907"). pn.  | US-PGPUB; USPAT; USOCR | OR | ON | 2010/06/03 15:21 |

### EAST Search History (I nterference)

| Ref # | Hits  | Search Query   | DBs                         | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|-----------------------------|------------------|---------|------------------|
| L57   | 5415  | 428/195.1.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:58 |
| L58   | 1032  | 428/211.1.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L59   | 4902  | 428/690.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L60   | 584   | 428/916.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L61   | 796   | 283/72.ccls.   | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L62   | 527   | 283/74.ccls.   | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L63   | 386   | 283/75.ccls.   | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L64   | 277   | 283/86.ccls.   | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L65   | 493   | 283/94.ccls.   | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L66   | 504   | 283/901.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 14:59 |
| L67   | 467   | 283/904.ccls.  | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 15:00 |
| L68   | 13987 | L57 L58 L59 L60 L61<br>L62 L63 L64 L65 L66<br>L67  | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 15:01 |
| L69   | 19501 | ((value bank<br>security) near3<br>(document note))<br>and (spectr\$5<br>infrared "IR")                  | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 15:02 |
| L70   | 2492  | ((value bank<br>security) near3<br>(document note))<br>same print\$4 and<br>(spectr\$5 infrared<br>"IR") | US-PGPUB;<br>USPAT;<br>UPAD | OR               | ON      | 2010/12/01 15:05 |



|     |      |  |                       |    |    |                  |
|-----|------|--|-----------------------|----|----|------------------|
| L71 | 3950 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR")  | US-PGPUB; USPAT; UPAD | OR | ON | 2010/12/01 15:05 |
| L72 | 2263 | ((secur\$5 value bank) near3 (document note)) same print\$4 and (spectr\$5 infrared "IR") and ((feature device) with (second additional))            | US-PGPUB; USPAT; UPAD | OR | ON | 2010/12/01 15:05 |
| L73 | 150  | ((secur\$5 value bank) near3 (document note)) same print\$4) and (spectr\$5 infrared "IR") and (volume with (document note substrate)) and absorb\$4 | US-PGPUB; USPAT; UPAD | OR | ON | 2010/12/01 15:06 |
| L74 | 498  | L68 and L69  | US-PGPUB; USPAT; UPAD | OR | ON | 2010/12/01 15:06 |
| L75 | 289  | L68 and L70  | US-PGPUB; USPAT; UPAD | OR | ON | 2010/12/01 15:06 |
| L76 | 309  | L68 and L71  | US-PGPUB; USPAT; UPAD | OR | ON | 2010/12/01 15:06 |
| L77 | 160  | L68 and L72  | US-PGPUB; USPAT; UPAD | OR | ON | 2010/12/01 15:06 |
| L78 | 23   | L68 and L73  | US-PGPUB; USPAT; UPAD | OR | ON | 2010/12/01 15:06 |

12/ 1/ 2010 3:15:36 PM

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